

SEQUENCE LISTING

<110> LEE, Sang Yup
PARK, Si Jae

<120> PROCESS FOR PREPARING POLYHYDROXYALKANOATE EMPLOYING maoC GENE

<130> Q77446

<150> KR 10-2003-0025863

<151> 2003-04-23

<160> 11

<170> PatentIn version 3.2

<210> 1

<211> 681

<212> PRT

<213> Escherichia coli

<400> 1

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20 25 30

Glu Val Thr Ser Glu Gly Leu Asp Met Ala Ala Ala Arg Gln Phe Ala
35 40 45

Ile Glu Lys Gly Ala Pro Ala Leu Arg Ala Met Thr Phe Ile Glu Arg
50 55 60

Ala Ala Met Leu Lys Ala Val Ala Lys His Leu Leu Ser Glu Lys Glu
65 70 75 80

Arg Phe Tyr Ala Leu Ser Ala Gln Thr Gly Ala Thr Arg Ala Asp Ser
85 90 95

Trp Val Asp Ile Glu Gly Gly Ile Gly Thr Leu Phe Thr Tyr Ala Ser
100 105 110

Leu Gly Ser Arg Glu Leu Pro Asp Asp Thr Leu Trp Pro Glu Asp Glu
115 120 125

Leu Ile Pro Leu Ser Lys Glu Gly Gly Phe Ala Ala Arg His Leu Leu
130 135 140

Thr Ser Lys Ser Gly Val Ala Val His Ile Asn Ala Phe Asn Phe Pro

145	150	155	160
Cys Trp Gly Met	Leu Glu Lys Leu Ala	Pro Thr Trp Leu Gly Gly Met	
	165	170	175
Pro Ala Ile Ile Lys Pro Ala Thr Ala Thr Ala Gln Leu Thr Gln Ala			
	180	185	190
Met Val Lys Ser Ile Val Asp Ser Gly Leu Val Pro Glu Gly Ala Ile			
	195	200	205
Ser Leu Ile Cys Gly Ser Ala Gly Asp Leu Leu Asp His Leu Asp Ser			
	210	215	220
Gln Asp Val Val Thr Phe Thr Gly Ser Ala Ala Thr Gly Gln Met Leu			
	225	230	235
Arg Val Gln Pro Asn Ile Val Ala Lys Ser Ile Pro Phe Thr Met Glu			
	245	250	255
Ala Asp Ser Leu Asn Cys Cys Val Leu Gly Glu Asp Val Thr Pro Asp			
	260	265	270
Gln Pro Glu Phe Ala Leu Phe Ile Arg Glu Val Val Arg Glu Met Thr			
	275	280	285
Thr Lys Ala Gly Gln Lys Cys Thr Ala Ile Arg Arg Ile Ile Val Pro			
	290	295	300
Gln Ala Leu Val Asn Ala Val Ser Asp Ala Leu Val Ala Arg Leu Gln			
	305	310	315
Lys Val Val Val Gly Asp Pro Ala Gln Glu Gly Val Lys Met Gly Ala			
	325	330	335
Leu Val Asn Ala Glu Gln Arg Ala Asp Val Gln Glu Lys Val Asn Ile			
	340	345	350
Leu Leu Ala Ala Gly Cys Glu Ile Arg Leu Gly Gly Gln Ala Asp Leu			
	355	360	365
Ser Ala Ala Gly Ala Phe Phe Pro Pro Thr Leu Leu Tyr Cys Pro Gln			
	370	375	380
Pro Asp Glu Thr Pro Ala Val His Ala Thr Glu Ala Phe Gly Pro Val			

385 390 395 400
 Ala Thr Leu Met Pro Ala Gln Asn Gln Arg His Ala Leu Gln Leu Ala
 405 410 415
 Cys Ala Gly Gly Gly Ser Leu Ala Gly Thr Leu Val Thr Ala Asp Pro
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 Gln Ile Ala Arg Gln Phe Ile Ala Asp Ala Ala Arg Thr His Gly Arg
 435 440 445
 Ile Gln Ile Leu Asn Glu Glu Ser Ala Lys Glu Ser Thr Gly His Gly
 450 455 460
 Ser Pro Leu Pro Gln Leu Val His Gly Gly Pro Gly Arg Ala Gly Gly
 465 470 475 480
 Gly Glu Glu Leu Gly Gly Leu Arg Ala Val Lys His Tyr Met Gln Arg
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 Thr Ala Val Gln Gly Ser Pro Thr Met Leu Ala Ala Ile Ser Lys Gln
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 Trp Val Arg Gly Ala Lys Val Glu Glu Asp Arg Ile His Pro Phe Arg
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 Lys Tyr Phe Glu Glu Leu Gln Pro Gly Asp Ser Leu Leu Thr Pro Arg
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 Arg Thr Met Thr Glu Ala Asp Ile Val Asn Phe Ala Cys Leu Ser Gly
 545 550 555 560
 Asp His Phe Tyr Ala His Met Asp Lys Ile Ala Ala Ala Glu Ser Ile
 565 570 575
 Phe Gly Glu Arg Val Val His Gly Tyr Phe Val Leu Ser Ala Ala Ala
 580 585 590
 Gly Leu Phe Val Asp Ala Gly Val Gly Pro Val Ile Ala Asn Tyr Gly
 595 600 605
 Leu Glu Ser Leu Arg Phe Ile Glu Pro Val Lys Pro Gly Asp Thr Ile
 610 615 620
 Gln Val Arg Leu Thr Cys Lys Arg Lys Thr Leu Lys Lys Gln Arg Ser
 3/7

625	630	635	640
Ala Glu Glu Lys Pro Thr Gly Val Val Glu Trp Ala Val Glu Val Phe	645	650	655
Asn Gln His Gln Thr Pro Val Ala Leu Tyr Ser Ile Leu Thr Leu Val	660	665	670
Ala Arg Gln His Gly Asp Phe Val Asp	675	680	

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<220>
 <223> PCR primer

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<220>
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<210> 7
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 <400> 7
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<220>
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<400> 10
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28

<210> 11
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<212> DNA
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<220>
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45